





1400 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390

48030008.q STSDDESA-PCNSITIGLQGSVGYIAPEYLGCHPSNQG-DVYSFSGVMILELPGKRPPTVIEHE-GLILHDVRRHMPHDVAVAAHAPVREAPSEm STAASPAAADVAAVBLIELGLCVCTQHSFLPLRPMWVDCHEITLNEAIRRH-AAAAAATAAAATDDEDDEDDDRSLSTT  
48030006.q TAAASSD-PCNSITIGLQGSVGYIAPEYLGCHPSNQG-DVYSFSGVMILELPGKRPPTVIEHE-GLILHDVRRHMPHDVAVAAHAPVREAPSEm STAASPAAADVAAVBLIELGLCVCTQHSFLPLRPMWVDCHEITLNEAIRRH-AAAAAATAAAATDDEDDEDDDRSLSTT  
15224094.p TDSSV-SFGSTDGLCQGSGVGYIAPEYLGCHPSNQG-DVYSFSGVMILELPGKRPPTVIEHE-GLILHDVRRHMPHDVAVAAHAPVREAPSEm STAASPAAADVAAVBLIELGLCVCTQHSFLPLRPMWVDCHEITLNEAIRRH-AAAAAATAAAATDDEDDEDDDRSLSTT  
48030005.q DDDDDASSTPYPRSSITRDLQGSVGYIAPEYLGCHPSNQG-DVYSFSGVMILELPGKRPPTVIEHE-GLILHDVRRHMPHDVAVAAHAPVREAPSEm STAASPAAADVAAVBLIELGLCVCTQHSFLPLRPMWVDCHEITLNEAIRRH-AAAAAATAAAATDDEDDEDDDRSLSTT  
56860023.p AADVG-ASTANMUCGCGICYIPEYLGCHPSNQG-DVYSFSGVMILELPGKRPPTVIEHE-GLILHDVRRHMPHDVAVAAHAPVREAPSEm STAASPAAADVAAVBLIELGLCVCTQHSFLPLRPMWVDCHEITLNEAIRRH-AAAAAATAAAATDDEDDEDDDRSLSTT  
AK064608.p -ISITRSPGCTIVGYMAPEYSGTAKASRKS-DVFSYGVMLLEPGKRPPTDAMFVG-ELSLRVEVNLRLSRAJDVHEGICLYDDTVSS DDAQGESTGS-RSCLACLGLCGLCQDLPEDRVIMKDVTWLORIKR-  
AK072480.p NSITRSPGCTIVGYMAPEYSGTAKASRKS-DVFSYGVMLLEPGKRPPTDAMFVG-ELSLRVEVNLRLSRAJDVHEGICLYDDTVSS EVLQA-SNLSLKWOKWSSPGEIS-  
19020021.p NSITRSPGCTIVGYMAPEYSGTAKASRKS-DVFSYGVMLLEPGKRPPTDAMFVG-ELSLRVEVNLRLSRAJDVHEGICLYDDTVSS SCSTS-SIDEGLK-VBELLGCLCSADSPEORMEKKDVVVLKKIR-  
33750012.p SSMISASMPGCTIVGYMAPEYSGTAKASRKS-DVFSYGVMLLEPGKRPPTDAMFVG-ELNNRLVVSQAFPAEVHVVDSQLLHDG- KDWKLSTAKIGSNAQQ-  
83583851.p NSMISASMPGCTIVGYMAPEYSGTAKASRKS-DVFSYGVMLLEPGKRPPTDAMFVG-ELNIRQVQQAFAFPABEVHVVDSQLLHDG- SSSTTINLHLHGELVEVPELGLCHCSADYPEORMEKKDVVVLKKIR-  
83583841.p NSMISASMPGCTIVGYMAPEYSGTAKASRKS-DVFSYGVMLLEPGKRPPTDAMFVG-ELNIRQVQQAFAFPABEVHVVDSQLLHDG- SSSSS-NMHGELVSVBELLGCLCSAHSPPEORMEKKDVVVLKKIR-  
83521161.p NSVISAASMPGCTIVGYMAPEYSGVKGASKRS-DAFSYGIMLLEPGKRPPTDAMFVG-ELSLRQVITSAPFSNMDVVDNLVQD- KDWVKMSISTTGSVALPAYTKE-  
83501185.p NSKITAASMPGCTIVGYMAPEYSGMKGASKRS-DVFSFSGVMILEVPGKRPPTDAMFVG-EVITIROVNVQAFPAKUVHVLDD-KLQLD- ESSIQD-LNH-LLE-IIFEVGILLCSSDLDEDORMEMAGVVVLLKKIR-  
AK100040.p NSKITAASMPGCTIVGYMAPEYSGMKGASKRS-DVFSYGVMLLEPGKRPPTDAMFVG-ELSLRQVITSAPFSNMDVVDNLVQD- SSSSCN-LDESFLV-IPELGLLICCSDLIENPEMMSDVVVLKKIR-  
83550290.p SSMVSVSMLCIGYMAPEYCSMKGASKRS-DVFSYGVMLLEPGKRPPTDAMFVG-ELSLRQVITSAPFSNMDVVDNLVQD- VAATEWISAT-  
63240005.p NSAVASASMPGCTIVGYMAPEYALMKGASKRS-DVFSFSGVMILEVPGKRPPTDAMFVG-GLITRQVVSOFEPKNIIDVADSHLQDEETRLC- RDWADSTGSQRTIE-  
83583855.p NSAVASASMPGCTIVGYMAPEYALMKGASKRS-DVFSYGVMLLEPGKRPPTDAMFVG-DMSLRKVSDAFPARLIDVDRQLQAEILIEQGVQRQNNATSLPRSATWNEGILLEIPELGLLICCSSESPEORMEKKDVVVLKKIR-  
83583848.p NSAVASASMPGCTIVGYMAPEYALMKGASKRS-DIFSYGIMLLEPGKRPPTDAMFVG-DMSLRKVSDAFPARLIDVDRQLQAEILIEQGVQRQNNATSLPRSATWNEGILLEIPELGLLICCSSESPEORMEKKDVVVLKKIR-  
83583853.p NSAVASASMPGCTIVGYMAPEYALMKGASKRS-DVFSYGVMLLEPGKRPPTDAMFVG-DMSLRKVSDAFPARLIDVDRQLQAEILIEQGVQRQNNATSLPRSATWNEGILLEIPELGLLICCSSESPEORMEKKDVVVLKKIR-  
62470016.p NSVISAASMPGCTIVGYMAPEYALMKGASKRS-DVFSYGVMLLEPGKRPPTDAMFVG-DMSLRKVSDAFPARLIDVDRQLQAEILIEQGVQRQNNATSLPRSATWNEGILLEIPELGLLICCSSESPEORMEKKDVVVLKKIR-  
1ir3\_IRK XRGKGKQLLTVRMAPEPSLKD-YFPTTS DMGFCVVLRIPSLABQPYQLSN-EQVLFKVMDCGGYLDDQFDNCPER- DIVKDLVSRFLVQPOKRYTAEEQLAHPFFQQX-  
2phk\_Phk -KLRECGTGSVLAPEIIECSMNNDHPGYGEVDMSPGVIMYILLACSFPPWHRKQM-DLRLMMGNYQFGSPEDDY-  
lias\_TGFbR IDIAFNHRVGKTKYMAPEVLDISINMHHFESFKRADYAVGLFWETARRCSIGGIHEDYQLPYYDLPVSDPSVEERKVVCEOKLRPN- IPNRWQSCEALRVMAKIMRECNYANGAARIATALRKKTLISOLS-QQEGIKM-

1410 1420 1430 1440 1450

48030008.q KDDSLFSN-  
48030006.q TSDSSLSY-  
15224094.p -  
48030005.q VLGEGF-  
56860023.p DD-  
AK064608.p -  
AK072480.p -  
19020021.p -  
33750012.p -  
83583851.p -  
83583841.p -  
83521161.p -  
83501185.p -  
AK100040.p -  
83550290.p -  
63240005.p VQQ-  
83583855.p -  
83583848.p -  
83583853.p -  
62470016.p AWDKLRSRQSKISRRMLRLENNALGGEFHMAYTYMVLWSYGMQSQIWIGV-  
1ir3\_IRK -  
2phk\_Phk -  
lias\_TGFbR -